

F. L. SANDERSON.
Machine-Brakes.

No. 150,620.

Patented May 5, 1874.

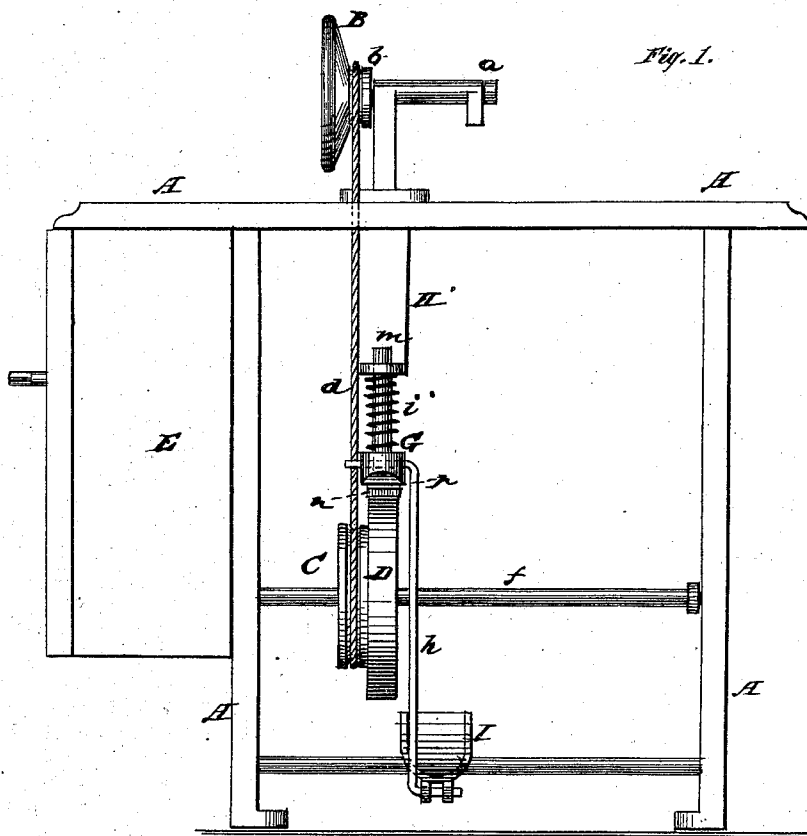


Fig. 1.

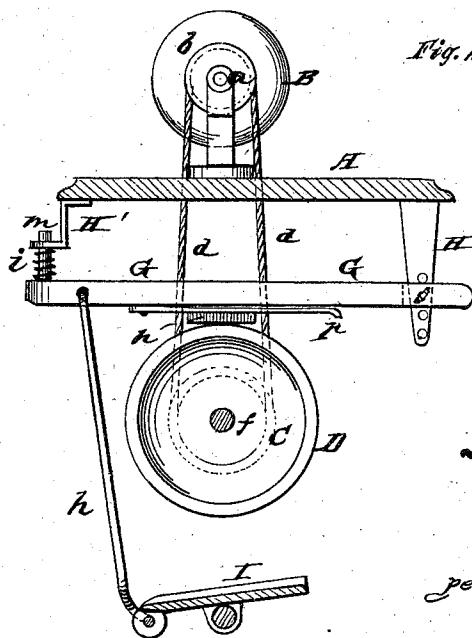


Fig. 2.

WITNESSES:

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IMPROVEMENT IN MACHINE-BRAKES.

Specification forming part of Letters Patent No. **150,620**, dated May 5, 1874; application filed March 4, 1874.

To all whom it may concern:

Be it known that I, F. L. SANDERSON, of Port William, in the county of Clinton and State of Ohio, have invented certain new and useful Improvements in Brakes for Sewing-Machines, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to the class of sewing-machines which are run by springs, weights, or other power; and the nature of my invention consists in the construction and arrangement of a brake for such sewing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a central vertical section.

A represents the stand of a sewing-machine, on top of which is the machine with the usual horizontal shaft *a*, having the fly-wheel B and band-pulley *b* at the side thereof. Around the pulley is passed a belt or band, *d*, down to and around the usual band-wheel C, which is formed on or attached to the side of a brake-wheel, D, and both placed on a horizontal shaft, *f*. The two wheels C and D need not necessarily be connected together, but may be separate and attached at any desired distance apart on the shaft *f*. This shaft I have represented as operated by a clock-work arranged in a casing, E, which is attached to the side of the stand A below the table; but it may as well be operated by any other convenient power. On the under side of the machine-table, near the front edge, is a pendent arm, H, to which is pivoted the front end of a

brake-lever, G. This lever extends backward over the top of the brake-wheel D, and its rear end is, by a rod, *h*, connected with a treadle, I, in the lower part of the stand A. From the rear end of the brake-lever G a pin, *m*, projects upward into a guide, H', pendent from the rear edge of the machine-table, to guide the brake-lever in its movement up and down. Surrounding the pin *m* is a spiral spring, *i*, to press the lever downward. On the under side of the lever G is attached a spring, *p*, of any suitable construction, and to this spring the brake-shoe *n* is secured.

It will readily be seen that by pressing down upon the front part of the treadle I the brake is released or raised from the wheel D, allowing the power to operate the machine, and as soon as the pressure is removed from the treadle the brake is applied, stopping the machine.

By graduating the pressure on the treadle the machine may be made to run fast or slow, as desired.

The pressure of the brake upon the wheel D may be regulated by adjusting the front end of the brake-lever up and down on the arm H.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The brake-lever G, provided with guide-pin *m* and spring *i*, in combination with spring *p*, shoe *n*, wheel C, treadle I, rod *h*, and arm H, all arranged substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

F. L. SANDERSON.

Witnesses:

A. J. VANPELT,
JOSEPH NOON.